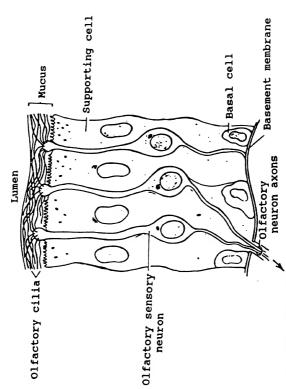
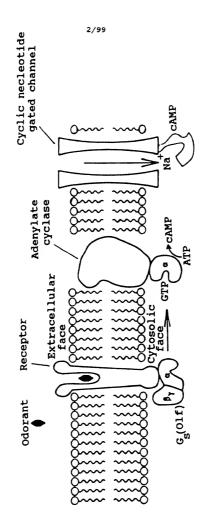
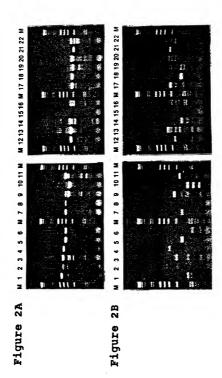
# Figure 1A



To olfactory bulb





#### 4/99 Figure 3

OLFACTORY

BRAIN

SPLEEN

5.0 2.0



5/99 Figure 4A

F3 F5 F6 F12 I3 I7 I8 I9	н	A	W N	E M	S T S N	S G G R	T Q N	N S N H N	QLT QSKQ	TSSRTGTT	S T R F R V A	V P F I V I I	STGSTSTSL	EEPSQEHQE	11 14 12 9 12 9
I15					Ť				_						11
F3	F	T.	ī.	L	G	F	v	E	N	ĸ	D	τ.	0	P	25
F5	F	-		ī						P			_	Q	25
F6	F	_		ī						R	-	M	R	Ĩ	28
F12	F	F		L				E	N	P	Q	L	H	F	26
13	F	L	L	L	G	L	₽	I	P	E	Ē	Н	Q	H	23
17	F	v	L	L	G	F	P	Α	P	Α	P	L	R	V	26
I8	F	L	L	L	G	L	P	I	P	P	E	Н	Q	Q	23
<b>I9</b>	F	F	L	L	G	L	P	F	₽	P	E	Y	Q	H	25
I14	F	_	_	L	_		_	I	P	s	E	Y	Н	L	25
T15	F	L	L	L	F	L	P	Ι	P	S	E	н	0	н	25

6/99 **Pigure 4B** 

	т														_
F3	Ī.	T	Y	G	L	F	L	s	N	¥	L	v	T	V	39
F5	L	ī	F	L	L	F	L	I	N	Y	L	A	T	v	39
F6	G	T.	F	L	L	F	L	v	N	Y	L	L	T	v	42
F12	L	Ŧ	F	Ä	L	F	L	s	N	Y	L	V	T	v	40
13	L	F	Y	λ	L	F	L	V	N	Y	L	${f T}$	T	I	37
17	L	L	F	F	L	s	L	L	X	¥	V	L	V	L	40
18	L	F	F	λ	L	F	L	I	H	Y	L	Т	T	F	37
19	L	F	Y	λ	L	F	L	A	N	Y	L	T	T	L	39
I14	L	F	Y	λ	L	F	L	A	ĸ	Y	L	Т	I	I	29
T15	v	F	Ÿ	λ	L	F	L	s	ĸ	¥	L	T	T	V	39

	1														
F3	Ī	G	N	I	s	I	I	V	Α	I	Ι	S	D	Ρ	53
F5	Ŧ.	G	N	L	L	I	I	L	Α	I	G	T	D	S	53
F6											G				56
	Ť	ž	N	Ŧ	Ť.	Ŧ	Ŧ	w	<u>~</u>	Ť	I	T	0	S	54
F12	L	G	п	n	n	-	•	1.7	-	-	-	-	×	Ξ	
I3	L	G	N	L	L	I	I	V	L	V	Q	L	D	S	51
17	т	F.	N	-M	L	I	I	I	Α	I	R	N	H	P	54
I8											Q				51
	=	~		7	Ŧ	Ŧ	÷	Ť	7	Ŧ	Ĺ	т.	D	S	53
19															
I14	L	G	N	L	L	I	I	V	L	V	R	L	D	S	53
															53
T15	L	G	N	ı	1	-	_	1	ı	-	Н	·	U	3	"

#### Figure 4C

				1	I										
F3	(	: 1		Ī	· P	N	Y 1	F	· F	L	S	N	L	s	67
F5	F	l	E	ľ	P	N	Y	F	·F	L	S	N	L	S	67
F6	C	: I	ي د	I	P	N	Y	F	F	L	С	N	L	S	70
F12	H	I	H	T	P	N	Y	F	F	L	A	N	L	S	68
13	Ç	I	. н	T	P	N	Y	L	F	L	S	N	L	S	65
17	1	I	H	K	P	N	Y	F	F	L	Α	N	M	s	68
I8	Н	I	H	T	P	H	Y	L	F	L	S	N	L	S	
<b>I9</b>	H	I	H	T	P	N	Y	L	F	L	S	N	L	S	
I14	H	I	H	M	P	H	Y	L	F	L	S	N	L	S	67
I15	Н	L	H	T	P	H	Y	L	F	L	S	N	L	S	67
	I														
F3	F	V		I				S		T				M	81
F5	F	V		V	C	F		S	T		V	P		V	81
F6	F		Ε	I	W	F	T	T			V	-		T	84
F12	F	V	_	I	C	F	_			T	I	P		M	82
<b>I</b> 3	F	S	D	_	C	F	S				M	P		_	79
I7	F	L	Ε	I	W	Y	V		V		I	P	K	M	82
18	F	s	D	L	C	F	S		V	T	M	L	K	L	79
19	F		D	L		F			V				K	L	67
I14	F	s	_	L		F	S			T	M	P		L	67
I15	F	S	D	L	C	F	S	S	V	T	M	P	K	L	67

#### 8/99 Figure 4D

F3	L -	-	_	-	V	N	I	Q	T	Q	N	N	V	91
F5	L -	-	-	_	Α	И	Н	Ι	L	G	S	Q	Α	91
F6	L -													94
F12	L -													92
13	L -	_	-	-	Q	N	M	R	s	Q	K	T	S	89
<b>I</b> 7	L A													96
18	L -	-	-	-	Q	N	Ι	Q	s	Q	V	P	S	89
<b>I9</b>	L -	-	_	-	Q	N	M	Q	S	Q	V	P	S	91
I14	L -	-	-	-	Q	N	M	Q	s	Q	V	P	S	91
<b>I15</b>	L -	-	-	-	Q	N	M	Q	s	Q	V	P	S	91

									I	II					
F3						C									105
F5	I	S	F	S	G	C	L	T	Q	L	Y	F	L	Α	105
F6						C									108
F12						C									106
13						C									103
<b>I</b> 7						C									110
18						C									103
19						C									105
I14	I	s	Y	Т	G	C	L	T	Q	L	Y	F	F	M	105
I15	I	P	F	A	G	C	L	T	Q	L	Y	F	Y	L	105

#### Figure 4E

F3 F5 F6 F12 I3 I7 I8 I9 I14	III  LFVELDNFLLTINA  VFGNMDNFLLAVNS  SLGCTEYFLLAVNA  VFAILGNFLLAVNA  VFGDMESFLLVANA  GLGCTECVLLAVNA  GLGCTECLLAVNA  GFGYLGNFLLVANA  FFGDLGNFLLVANA  VFGDMESFLLVANA  VFGDMESFLLVANA	119 119 122 120 117 124 117 119
F3 F5 F6 F12 I3 I7 I8 I9 I14	III Y D R Y V A I C H P M H Y T Y D R F V A I C H P L H Y T Y D R Y L A I C L P L R Y G Y D R Y V A X C H P L C Y T Y D R Y V A I C F P L H Y T Y D R Y V A I C F P L H Y T Y D R Y V A I C F P L H Y T Y D R Y V A I C F P L H Y M Y D R Y V A I C F P L R Y T Y D R Y V A I C F P L R Y T	133 133 136 134 131 138 131 133 133

# 10/99 Figure 4F

						I	<i>7</i>								
F3	v	I	M	N	Y	K	L	C	G	F	L	V	L	V	147
F5	Т	K	N	Т	R	Q	L	С	v	L	L	V	V	G	147
F6	G	I	H	T	P	G	L	Α	M	R	L	Α	L	G	150
F12	v	I	v	N	Н	R	L	C	I	L	L	L	L	L	148
13	S	I	N	S	P	K	L	C	Т	С	L	V	L	L	145
I7	v	I	v	S	s	R	L	C	v	Q	M	Α	Α	G	152
18	N	I	H	S	Н	K	L	C	T	С	L	L	L	V	145
I9	S	I	N	S	P	K	L	C	V	s	L	V	V	L	147
I14	T	I	H	S	Т	K	F	C	Α	s	L	V	L	L	147
I15	s	I	H	S	P	K	L	C	V	s	L	V	V	L	147

	1	<u> </u>													
F3	S	W	I	V	s	V	L	H	λ	L	F	Q	s	L	161
F5	S	N	v	V	Α	N	M	N	С	L	L	H	I	L	161
F6	S	W	L	С	G	F	s	A	I	T	V	P	A	T	164
F12	S	W	v	I	s	I	F	H	λ	F	I	Q	s	L	162
I3	L	W	M	L	Т	Т	s	H	λ	М	M	H	Т	L	159
17	S	W	Α	G	G	F	G	I	s	М	V	K	V	F	166
18	F	W	I	М	Т	s	s	H	A	M	M	H	T	L	159
Ī9	S	W	v	L	T	Т	F	H	λ	M	L	H	Т	L	161
T14	L	W	M	L	Т	M	Т	H	λ	L	L	H	Т	L	161
115	S	W	v	L	T	Т	F	H	A	M	L	Н	т	L	161

11/99
Figure 4G

F3 F5 F6 F12 I3 I7 I8 I9 I14 I15	M M L A L P F C T H L E I P L M A R K S F C A D N M I P L I A R L S F C G S R V I N I V L Q L T F C G D V K I P L A A R L S F C E N N V L L L A A R L S F C E D S V I P L I A R L S F C E K N V I L L M A R L S F C E K N V I L L M A R L S F C E K N V I L L M A R L S F C A D N M I P	175 178 176 173 180 173 175 175
F3 F5 F6 F12 I3 I7 I8 I9 I14 I15	H Y F C E P N Q V I Q L T C H F F C D G T P L L K L S C H F F C D I S P W I V L S C H F F C E L N Q L S Q L T C N F F C D L F V L L K L A C H F F C D L F V L L K L A C H F F C D L F V L L K L A C H Y F C D M S T L L K L S C H F F C D I S A L L K L S C H F F C D I S P L L K L S C	189 189 192 190 187 194 189 189

#### Figure 4H

								V							
F3			A												203
F5			T												203
F6			T												206
F12			N												204
13	S	D	T	Y	I	N	E	L	М	I	F	I	M	S	201
I7			M												208
18	S	D	T	Y	V	И	E	L	M	I	Н	I	M	G	201
<b>I9</b>	S	D	T	Н	D	N	E	L	Α	I	F	I	L	G	203
I14			Ι											G	203
I15	S	D	T	H	V	N	E	L	V	I	F	V	M	G	203

	v														
F3	V	L	L	A	Т	V	P	L	A	G	I	F	Y	s	217
F5					V										217
F6					L										220
F12					Α										218
I3					I										215
17					L										222
18					V										215
<b>I9</b>					V										203
I14					I										203
I15	G	L	V	Ι	V	Ι	P	F	V	L	I	I	V	S	203

## 13/99 Figure 4I

F3	V	F	к	T	v	s	s	I	С	Α	I	s	s	v	231
_	ů	Ť	ч	Ŧ	T	Č	A	v	L	R	V	s	S	P	231
F5	v	_	v	÷	÷	m	т	Ť	Ŧ	K	T	P	s	A	234
F6	I	A	v	. <del>.</del>	- 37	ċ	ċ	Ŧ	ū	ŝ	Ŧ	s	T	v	232
F12	I	r	7	<u>.</u>	~	0	9	÷	Ť.	¥	v	Þ	ŝ	m	229
13	¥	Α	R	Ŧ	1	5	3	τ.	יי		Ť	Þ	ĕ	7	236
I7	¥	M	A	Ţ	T	G	A	~	M	K	7.	F .	S	m	229
18	¥	Α	K	I	I	S	S	Ŧ	ㅗ	v	٧		S	1	231
19	Y	Α	R	I	V	s	S	I	F	K	V	7	S	5	
114	¥	V	R	I	F	F	S	I	L	K	F	P	S	+	231
T15	Y	Α	R	v	v	A	S	I	L	K	٧	₽	S	٧	231

					v	I							_	
н	G	ĸ	Y	ĸ	A	F	s	T	C	A	S	H	L	245
**	Ξ			-	~	-	ē	m	^	C	2	H	T.	245
R	G	G	W	•	0	£	3	*	-	•	Ξ	==	7	240
Ð	G	R	н	R	Α	F	S	T	C	S	S	н	T	248
-	Ξ	7,	37	~		E	•	T)	•	Δ	S	H	L	246
Q	G	V	¥	•	M	£	-	-	~		Ξ		Ξ	242
0	G	I	С	ĸ	v	F	S	T	С	G	S	н	ı	243
*	~	_	7.7	~		1	•	T	C	Α	S	H	L	250
A	G	ĸ	п	•	n	*	-	•	~	-:-	Ξ	-:-	-	243
0	S	T	Н	K	v	F	S	T	С	G	S	н	ъ	243
×	~	=	77	v		10	•	T	0	G	2	H	T.	245
Q	S	T	п	v	M	Ł	3	•	_	_	_		-	
0	n	т	v	K	v	F	S	T	С	G	S	н	T	245
×	=	_	•	ü	÷	100	é	Ē	^	G	0	H	T.	245
Þ	G	- F	н	. ₹	T	r	3	7.	·	3		44		240
	RRQQAQQ	R G G G G S S D	R G G R Q G I A G R Q S I Q S I Q S I	RGGWRGRHQGIC	R G G W K R G R H R Q G I C K Q G I C K Q S I H K Q S I H K	H G K Y K A R G G W K S R G R H R A Q G I C K V A G R H K A Q S I H K V Q S I H K V	RGGWKSF RGRHRAF QGKYKAF QGICKVF AGRHKAF QSIHKAF QSIHKVF	H G K Y K A F S R G G W K S F S R G R H R A F S Q G I C K V F S A G R H K A F S Q S I H K V F S Q S I H K V F S	H G K Y K A F S T R G G W K S F S T R G R H R A F S T Q G K Y K A F S T Q G I C K V F S T Q S I H K V F S T Q S I H K V F S T Q S I H K V F S T	H G K Y K A F S T C C R G G W K S F S T C C R G R H R A F S T C C Q G I C K V F S T C C A G R H K A F S T C C Q S I H K A F S T C C Q S I H K A F S T C C Q S I H K A F S T C C Q S I Y K V F S T C	H G K Y K A F S T C A R G G W K S F S T C S R G R H R A F S T C S Q G I C K V F S T C G A G R H K A F S T C G Q S I H K A F S T C G Q S I H K A F S T C G	H G K Y K A F S T C A S R G G W K S F S T C C S S R G R H R A F S T C C A S Q G I C K V F S T C C A S Q G I C K V F S T C C A S Q S I H K A F S T C G S Q S I H K A F S T C G S Q S I H K A F S T C G S	H G K Y K A F S T C A S H R G G W K S F S T C G S H R G R H R A F S T C S S H Q G K Y K A F S T C G S H Q G I C K V F S T C G S H Q S I H K V F S T C G S H Q S I H K A F S T C G S H Q S I H K A F S T C G S H	H G K Y K A F S T C A S H L R G G W K S F S T C G S H L Q G K Y K A F S T C A S H L Q G I C K V F S T C G S H L Q G I H K A F S T C G S H L Q S I H K A F S T C G S H L Q S I H K A F S T C G S H L Q S I H K A F S T C G S H L Q S I H K I F S T C G S H L R G I H K I F S T C G S H L

#### 14/99 Figure 4J

17T

18

19

**I14** 

**I15** 

	<u>V1</u>	
F3	SVVSLFYCTGLGVY 2	59
F5	AVVCLFYGTVIAVY 2	59
F6	m 11 11 12 12 A	62
F12	SIVSLFYSTGLGVY 2	60
I3	SVVSLFYGTIIGLY 2	57
<b>I</b> 7		64
18		57
<b>I9</b>		59
I14	A 11 11 - 1 - 1	59
I15	0 77 77 0 7 70 70 70 70 70 70 70 70 70 7	59
TP 2	VI VII	
F3		73
F5		73
F6		76
F12		74
13		71
<b>I</b> 7		78
TΩ	T C D C C D N D C T T C C	

L C P S G D N F S L K G S A L C P S A N N S T V K E T V L C P S G N N S T V K E I A

LCPSANNS

TVKEIA

271

273

273

273

15/99 Figure 4K

	V.	ΙI							_					_	
F3	A	s	V	M	Y	T	V	V	T		М			P	287
F5	Α	Α		M		Α	V	V	T	P	М	L		P	287
F6	I	Т	v	L	N	T	I	V	T	P	V	L	И	P	290
F12	Ā	s	v	N	Y	T	V	V	T	P	M	L	И	P	288
13	М	Ā	M		Ÿ	T	V	V	T	P	M	L	N	P	285
17	v		Ÿ		Ÿ	Ā	V	I	V	P	L	F	N	P	292
17 18	M	A		_	Ÿ	T	V	V		P	M	L	N	P	285
10 19	M	ŝ		M	Ÿ	Ī	М	v		P	M	L	N	P	287
19 114	M			H	_	_				P	M	L	N	P	287
	M	2	M	M	v	Ť	v	v	T	P	M	L	N	P	287
115	1-1	^	1.1	••	•	•	•	•	-,						
	<u>v</u> :	ΙΙ		_		_		77		17	~	_	37	т.	301
F3	F	I						ĸ	D	V	ĸ	S	V	L	301
F3 F5	F	I	¥	S	L	R	N	s	D	M	K	Α	A	L	301
F5 F6	FFF	III	Y	S T	L	R R	N	s K	D	M V	K	A E	y	L	301 304
F5	FFFF	IIII	Y Y Y	S T S	L L	R R R	N N N	S K K	D D D	M V V	K	A E R	y	L	301 304 302
F5 F6	FFFFF	IIIIIII	X X X	STS	LLL	R R R	N N N	S K K R	DDDD	M V V M	K	A E R R	AAA	LLLL	301 304 302 299
F5 F6 F12	FFFF	IIIIIIIII	X X X X X	STSSC	LLLLL	RRRRR	N N N N	S K K R Q	DDDDD	M V V M V	KKKK	A E R R R	AAAA		301 304 302 299 306
F5 F6 F12 I3	FFFFFFFF	IIIIIIII	X X X X X X X X X X X X X X X X X X X	STSSCS	LLLLLL	R R R R R R	и и и и и и	SKKRQR		M V M V M	KKKKK	AERRRQ	<b>A</b>		301 304 302 299 306 299
F5 F6 F12 I3	FFFFFF	IIIIIIII	X X X X X X X X X X X X X X X X X X X	STSSCSS	LLLLLL	RRRRRR	и и и и и и и	SKKRQRR	0000000	M V V M V M I	KKKKKK	A E R R Q D	*******		301 304 302 299 306 299 301
F5 F6 F12 I3 I7	FFFFFFFF	IIIIIIII	X X X X X X X X X X X X X X X X X X X	STSSCS	LLLLLLLLL	R R R R R R	<b>11</b> 11 11 11 11 11 11 11 11 11 11 11 11	SKKRQRRR		M V M V M I M	KKKKKK	AERRRQDR	********		301 304 302 299 306 299

## 16/99 Figure 4L

F3	K	K	T	L	С	Ε	Ε	V	I	R	S	Ρ	P	s	315
F5	R	K	V	L	Α	M	R	F	Ρ	S	K	Q	-		313
F6	R	R	Т	V	K	G	K	-							311
F12	E	R	L	L	E	G	N	С	K	V	Н	Н	W	T	316
13	I	R	V	I	C	s	M	K	I	T	L	-			310
17	R	R	T	L	Н	L	Α	Q	D	Q	E	Α	N	T	320
18	I	R	V	Т	С	S	K	K	I	s	L	P	W	_	312
19	E	K	I	М	С	K	K	Q	I	P	s	F	L	_	314
I14	I	R	V	I	С	Т	K	K	I	S	L	-			312
I15	I	R	V	L	С	K	K	K	I	Т	F	С	L	-	314
F3 F5 F6	L	L	н	F	F	L	v	L	С	н	L	P	С	F	329
F12 I3	G	-													317
17 18 19 114	N	ĸ	G	s	ĸ	I	G	-							327
T15															

F3	I	F	С	Y	-
F5					
F6					
F12					
I3					
I7					
<b>18</b>					
I9					
I14					
I15					

333

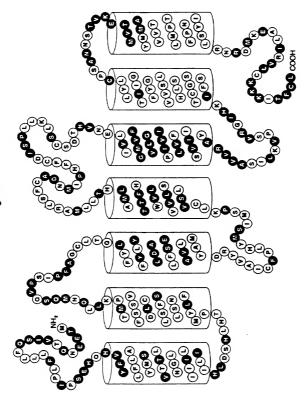


Figure 5

#### Figure 6A(1)

					V									
F2	R	V	N	E	V	V	I	F	I	V	V	s	L	F
F3	F	L	N	D	L	V	I	Y	F	T	L	v	L	L
F5	Н	L	N	E	L	M	I	L	Т	Ε	G	Α	V	V
F6	Q	V	V	E	L	V	S	F	G	I	Α	F	С	V
F7	Н	V	N	E	L	V	I	F	V	М	G	G	Ι	I
F8	F	P	S	Н	L	Т	M	Н	L	V	P	V	I	L
F12	F	₽	s	H	L	I	M	N	L	V	P	V	M	L
F13	F	Ρ	S	Н	L	I	M	N	L	V	Ρ	V	M	L
F23	F	L	N	D	V	I	М	Y	F	Α	L	v	L	L
F24	Н	E	I	E	М	I	I	L	V	L	Α	Α	F	N
13	Y	I	И	E	L	М	I	F	I	М	s	Т	L	L
I7	S	Т	Α	E	L	Т	D	F	V	L	Α	Ι	F	I
18	Y	V	N	E	L	M	I	Н	I	М	G	V	I	Ι
I9	Н	D	И	E	L	Α	I	F	Ι	L	G	G	P	Ι
I11	Н	L	N	E	L	M	I	L	Т	E	G	Α	V	V
I12	F	Ρ	s	Н	L	Ι	М	N	L	V	Ρ	V	М	L
I14	Y	V	N	E	L	M	I	Y	I	L	G	G	L	I
I15	Н	٧	N	E	L	V	I	F	V	M	G	G	L	v

#### Figure 6A(2)

	V													
F2	L	v	L	P	F	A	L	I	I	M	s	Y	v	R
F3	Α	Т	V	P	L	Α	G	I	F	Y	S	Y	F	K
F5	M	V	Т	P	F	v	С	I	L	I	S	Y	I	Н
F6	I	Н	G	s	С	G	I	T	L	V	S	Y	Α	Y
F7	L	V	I	P	F	V	L	I	I	V	S	Y	v	R
F8	A	Α	Ι	s	L	s	G	I	L	Y	S	Y	F	K
F12	A	Α	I	s	F	s	G	I	L	Y	S	Y	F	K
F13	Α	Α	Ι	S	F	S	G	I	L	Y	S	Y	F	K
F23	Α	V	V	P	L	L	G	I	L	Y	S	Y	s	K
F24	L	Ι	S	S	L	L	٧	v	L	V	S	Y	L	F
13	I	Ι	I	P	F	F	L	I	V	M	S	Y	Α	R
17	L	L	G	P	L	s	v	Т	G	Α	S	Y	M	Α
18	I	V	I	P	F	V	L	I	v	I	S	Y	Α	K
<b>I9</b>	V	V	L	P	F	L	L	I	Ι	v	S	Y	Α	R
I11	M	V	Т	P	F	V	С	I	L	I	S	Y	Ι	Н
I12	G	A	I	s	L	S	G	I	L	Y	S	Y	F	K
I14	I	Ι	I	P	F	L	L	I	v	M	s	¥	v	R
I15	T	v	Т	P	F	v	T.	T	T	v	2	v	Δ	D

#### Figure 6A(3)

```
S
              I
                LKVP
                         S
                           s
F2
             s
              I
F3
        V
          S
                 CA
                    I
                      s s v
                             H G K
            A V L R V S S P R G G
F5
      I
        T C
        I T
V S
V S
            TIIKI
SILKV
SIRSM
      I
F6
                       P S A
                             R G R
                LKVPSA
F7
                             R G
                                 Ι
      Ī
F8
                       s s v
                             QGK
      I
        V S
            SIHS
                    I
                       STV
                             QGK
F12
        V S
V S
      I
            SIRSVSSV
F13
                             K
                               G K
      I
            SIRA
                    I
F23
                       s
                        T V
                             QGK
        L I
I S
      I
            AILRMNSAEGR
F24
      I
            SI
                LKVPST
13
                             QG
                                 I
        T G
I S
V S
17
      I
            AVMRI
                      P S
                          Α
                             A G R
      I
            SI
                LKVPST
                             QSI
18
                             õ
      I
            SI
                          s
19
                FKVP
                         S
                               s I
      Ī
        T W
V S
            A V L R V S S P
                             Ř G G
I11
I12
            SVRS
                    I S S V
                             Q
                               GK
          F S
A S
                L K F P S
L K V P S
I14
      I
        F
V
              I
                           I
                             Z
                               D
                                 I
115
              I
```

#### Figure 6A(4)

F2	Y K
F3	Y K
F5	w K
F6	H R
F7	R K
F8	Y K
F12	Y K
F13	Y K
F23	Y K
F24	R K
I3	CK
I7	H K
<b>I8</b>	H K
I9	H K
I11	WK
I12	H K
I14	Y K
I15	H K

#### Figure 6B

					v									
F12	F	P	s	H	L	I	M	N	L	V	P	V	M	L
F13	F	P	S	H	L	I	Н	N	L	V	P	V	М	L
F8	F	P	S	H	L	$\mathbf{T}$	M	Н	L	V	P	V	I	L
I12	F	P	S	H	L	I	M	N	L	V	P	V	M	L
F23					V									
F3	F	L	N	D	L	V	I	Y	F	T	L	V	L	L

F12	A	λ	I	S	F	S	G	I	L	Y	S	¥	F	K	
F13	λ	λ	I	S	F	S	G	I	L	Y	S	Y	F	K	
F8	λ	λ	I	S	L	S	G	I	L	Y	S	Y	F	K	
I12	G	A	I	s	L	S	G	I	L	Y	S	Y	F	K	
F23	λ	V	V	P	L	L	G	I	L	Y	S	Y	s	K	
F3	λ	T	V	P	L	Α	G	I	F	¥	S	Y	F	K	

#### Figure 6B (Continued)

F12	I	V	S	S	I	Н	S	I	S	T	V	Q	G	K
F13	I	V	S	S	I	R	S	V	S	S	V	K	G	K
F8	I	V	S	S	I	R	S	M	S	S	V	Q	G	ĸ
I12	I	V	S	S	V	R	S	I	S	S	V	Q	G	K
F23						R								
F3						С								
F12	¥	ĸ												
F13	Y	K												
F8	Y	K												
I12	Н	K												
F23	Y	X												
F3	Y	ĸ												

#### Figure 6C

					V									
F7	Н	V	N	E	L	v	I	F	v	М	G	G	I	I
I15	Н	V	N	E	L	V	I	F	V	N	G	G	L	V
I3	Y	I	N	E	L	М	I	F	I	H	s	Т	L	L
I8	Y	V	N	E	L	М	I	Н	I	M	G	V	I	I
I9	Н	D	N	E	L	Α	I	F	I	L	G	G	P	I
I14	Y	V	И	E	L	M	I	Y	I	L	G	G	L	I
	17													
	<u>v</u>			_			_	_	_		_		_	_
F7	_		_		F		_	_		-	_	_	-	
I15	I	V	I	P	F	V	L	I	I	v	S	Y	λ	R
<b>I</b> 3	I	I	I	P	F	F	L	I	v	M	S	Y	A	R
I8	I	V	I	₽	F	v	L	I	V	I	S	Y	A	K
<b>I9</b>	v	V	L	P	F	L	L	I	I	v	S	Y	A	R
I14	I													

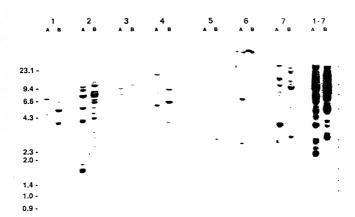
#### Figure 6C (Continued)

F7 I15 I3 I8 I9 I14	V I I	V I V	A S S	\$ \$ \$ \$	I I I	LLLFL	KKK	A A A	PPP	s s s	V T T	R Q Q Q	G G S	III
F7 I15 I3 I8 I9 I14	H C H H	X X X X X X X X X X X X X X X X X X X												

#### Figure 6D

F5 I11		_	 -	r L	 _	_	_	_	_	 •	-
F5 I11	v n n			F							
F5 I11	I			V V							
F5	W										





29/99 Figure 8

SPLEEN

RETINA

OLFACTORY
BRAIN
HEART
KIDNEY
LIVER
LUNG
OVARY

5.0 -2.0 -



Translated sequence of F3T.D1S Figure 9A

		30/99		
84C 8AC	120 * ATT 1	180 * TAT Y	240 * AAC K	300 * CAG
GAA E	GTC V	ATG M	CCA	ACC T
GTA V	ACT T	CCC	GTT	ATT I
50 * TTT F	110 * GTT	170 * ACC T	230 * ACT T	290 * TGC
g G	CTG	CAC	ACC	ე ე
CTT	TAC	CTG L	TCA	GCA A
40 * CTT L	100 * ATG	160 * TGT c	220 * TTC ATT : F I	:80 * TAT Y
CIT	TCT	ິດລິ	TTC	ACC T
TTT F	CIC	GAT	TGT	ATC I
GAA E	O TIT	TCA	210 * GAC ATC TGT I D I C	GTC V
s s	e CTT	15( * ATT I	21( * GAC D	27C * AAT
E >	SGI	ATC I	cTG v	<b>AA</b> C
AGA R	TAT	GCT A	111	<b>V</b> O
20 * ACA T	80 * ATT I	140 * CTG V	200 * TCC S	
AGG R	CIT	ATT I	CIG	CAG
	4 222		-	ATC I
10 * AGC S	CAA 0	130 * TCC S	190 * : TCT S	.50 * AAC N
TCA	CTA	ATA I	CTC	CTC v
	GAC	-	TTC	TTA L
ATG M	AAA	CGA G	TIC	ATG

Figure 9B

		31/99			
360 * TAT Y	420 * CTC L	480 * AGC S	540 * GAA E	600 * TAT Y	099
OCC A	AAG ×	<b>Y</b> 0	TGT	ATA I	
ATG M	TAC	TTT F	TTC	GTG	
350 * ATC I				590 * CTT L	650
ACT T				GAT	
CTG	ATC	CAT H	CCA	AAT	
340 * TTC TTG F L	* * CTT	,60 * CTG L	,* ATC	580 * ITT CTT , F L	079
TTC F	ACA T	6TT v	GAA 3	TTT	v
N AC	Y X	S	7. 1.	A SC	
GAC	CAC	GTA V	CAT H	570 * TCT GAT ( S D	_
33. * 11. 11.	39. * ATG	45' * ATT I	510 * ACA T	57( * TCT S	63(
GAA		TGG		TGT	
GTA V	CAC H	TCT S	TTC	ACC T	
320 * TTT F	380 * TGT C	440 * GTA V	500 * CCC	560 * CTC L	620
CIC	ATC I	CTG L	CTG L	CAA ○	
TTG L	000 P	CTT V	occ V	ATT I	
310 * TTT TTC F F	370 * T TAC GTA G Y V	430 * A TTT CTG G F L	* 171G	550 * CAG CTG A	910
TIT	TAC	, 111 F	ATG M		
	ပ္ပ	00 <b>A</b>	ATG M	AAT N	
ATA I	GAC	TGT	TTG	CCT	

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		٥.	-, -,	
AAG K	720 * ACC T	780 * CTC L	840 * GTA V	900 *
TTC	TCC	TAC Y	ACT T	
TAC	TIC	GTG V	TAC Y	
* TCT S	710 * GCA A	770 * GGA G	830 * ATG	890
TAT Y	¥×	CTA	GTC	
TIC	TAC	g GGA	TCA S	
* ATC I	700 * AAG	760 * ACA T	820 * GCC	880
ე ეეე	် ဗ္ဗ	7 TGC C	ACA T	₩.
GCT	CAT H	TAC	000 P	
CŢŢ	CTT V	TIT	AGT S	
CCT P	690 * TCA (	750 * TTA '	810 * GCA /	870
GTT V	TCG S	TCT	CAG	
ACT T	ATA I	CTG V	TCA	
scT A	680 * GCT A	740 * GTC	800 AGC S	860
CIG	TGT	TCA S	AAC	
CTG	ATA I	CIT	AAC	
¢ GTG V	670 * TCC S	730 * CAC H	790 * GCA A	\$50
CTT	TCC S	TCT	GCT A	₩.
ACA T	GTG V	GCA A	TCT	
TTT	ATA I	TGT	AGT S	ļ

32/99

# S × Ω × z ~ S ۵, z > Σ М >

Figure 9D

	33/33
960 * TTC F	
TIC	
CAT	
950 * CTT	
CTA	
TCC	
940 * CCT	1000 * T TAA
CC A	1C TAT Y
AGT S	TGT
AGG R	TTT
930 * ATA I	990 * ATT I
GTT	TTT
GAA E	TGT C
920 * GAG E	980 * CCT
TGT C	off J
CIT	CAT H
910 * ACT T	970 * TGT
× <b>§</b>	TTA
AAA K	CTG V
CTG	CTA L

Sequence printed from base no. 57 to base no.1058 Sequence numbered beginning with base no. 57 Sequence numbered beginning with base no. Translation begun with base no. Translated to base no.1058

Figure 10A Translated sequence of

F5T.D1S

		/		
60 * * CAG	120 * CTG L	180 * TAC Y	240 * * AAA	300 * * CAG
AGG.	GTC	ATG M	CCT	ACC T
		သည		
50 CTC	110 * GCC	170 * ACC T		290 * TCT C
SGA G	CTG		ACC	ပ္ပိ ပ
		CTG	TCT	TCT
CTC CTC	100 * ATG	160 * TCC CGC S R	220 * TCC S	280 * TTC F
CIC	ATC	S	TTC	TCC S
ITC F	213	3AC D	ပ္ပို့ ပ	TT. I
GAG E	) TTC F	150 * GGC ACA G	o CTC	ეც ∨
ACC	CTC + 9	15. 4. 5. 5.	21( * CAT D	27C CAG
GTC V	CTC	ATT I	GTG V	AGT S
	TTC	GCT A	TT 3	ეე ი
20 * TCC S	80 CTC L	140 ** CTG	200 * TCC S	260 * CTT
CAG	CTC	ATC I	CTC L	ATA I
AAC			AAC	
10 * <b>A</b> CC		130 * CTC L	190 * : AGT S	250 * AAC N
AGC S	CAG	1 CTC L	CTC	ີ່ ວິດ <b>4</b>
AGC S	CAG Q	AAC	TTC	CIC
ATG	ا 200	ა ზეე	TTC	CTT

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360 * TAT Y	420 * CTC L	480 * ATA I	540 * GAT D	600 * CTT L	099
TCC S		CAC		ATT I	
ATG M		TTC	TTC F	ATG M	
350 * CTC	410 * ACC T	470 ** CTG	530 * TTC F	590 * CTG L	650
		TGT	CAC H	GAG	
CTG	AAG	. AAT	222	AAT	
340 * CTG	+00 + ACA T	460 * ATG	520 * ATC I	580 * CAT CTC	079
TTC TTC	ACA T	AAC Z	ATG M	CAT H	•
AAT N	Y Y	ე ▼	N AC	T (A	
SAC D	CAC H	GTA V	GAC	570 * TCA GAC A	_
	390 * TTA (	45( * GTT V	51( * 6CA A		63(
AAC N	•	TGG		-	
o C		TCA S		-	
320 * TTT F	380 * TGC C	9 9 9 9 9 9 9 9 9 9	\$00 TCC S	560 * CTC	620
GTG	ATA I	GTG V	CIC	. <b>\\</b>	
GCT A	QCC A	GTT V	CGA R	CTG L	
310 * CTC L	370 * CGTG V	430 * ; CTT	490 * ; GCT	550 * CTC L	019
TITI	3 TIT F	4 CTC L	4 ATG M	S CCC P	·
TAT	CGA R	GIC	CTC	-	
CTG TAT	GAC	TGT	CTG L	gg <b>A</b>	

35/99

# Figure 10C

+;*	CAC H	720	ACC T	<b>78</b> 0	11C F	840	GTC	>
	TAC ATC Y I		TTC TCC F S		GTG TAT V Y		GCA	¥
	TAC Y		TTC F		CTG V		TAT	<b>&gt;</b>
*	TCC S	710	TCC S	770	GCT A	830 *	ATG	Σ
	ATC I		¥×		CTC TTC TAT GGC ACC GTC ATC L F Y G T V I		GTG	>
	L		TCA TCC CCC AGG GGA GGA TGC S S P R G G W		GTC V		gc <b>A</b>	∢
*	CCA TIT GTC TGC ATC (	00 *	gg <b>A</b>	760 *	ACC	820	CCA CCT	ď
	75C C	7	ပ္ပဲမွ		ပ္ပ		GCA	ď
	GTC V		AGG R		TAT Y		C ATG G	E
	TTT F	_	000 P	_	TTC		AGG GAC	Ω
*	CCA P	069 *	TCC S	750	CTC L	810	AGG	∝
	T T		TCA S		ာ ၁		V 222 1	ၒ
	ATG GTC / M V		GTC V		GTC V		TTA GCT	4
*	ATG M	¢80	AGA R	740	GTG	800	TTA	u
	CTC V		CIC		GCT A		CCA TCA TCC TCT CAC TRONUC/TRA OPTION	Ħ
	CTC V		GTC		CTG		TCT O	S
*	GCT A	670	TGT GCT C	730	TCC CAC S H	790	TCC TRA	S
	S S	•	TGT C	7	TCC S	7	TCA NUC/	S
	GAG E		ACC		၁၁			ď
	ACA T		ATC		<b>16</b> T ೧		AAC	z

36/99

_	37/99
900 * SCT A	
GCA A	
A A	
890 * ATG M	
GAC	
AGC S	
880 * AAC N	940 * TAA
AGG R	. 88 o
CTG	AAG K
AGC S	o TCT s
870 * TAT Y	930 * CCA
ATC	TTT
TTC	AGA R
860 * CCT	920 * ATG M
AAC	SCC A
CIG	CIC
850 * ATG M	910 * GTG
CCA P	AA ×
ACC T	AGG R
GTG	TTA

Translation begun with base no. 62 Translated to base no.1003 Sequence printed from base no. 62 to base no.1003 Sequence numbered beginning with base no.

F6T.D1S Translated sequence of Figure 11A

		•		
60 * TTC F	120 * CTT L	180 ACA	240 * TGC	300 * TGT
ပ္ပ	CTG	CAG	OCC A	၁၁ ၁
CTG	TAT Y	CTA	ACA T	GCT
	110 * ATG			
ATC	GTC V	AGA R	ITC	TCC S
TIC	CTG	CAC	TGG	ATT I
40 * CCA P	100 * CIT IIC C L F	V 200 *	220 * ATC I	280 * GTC V
SGA G	CH	GGT G	GAG E	ີ່ <b>ຢ</b> ູ່ວ
ပ္ပ မ	C C	CTA V	CTC	ည် ပ
ACA T	90 * CTC TTC L F	CTG L	TTC	, co
3( TCC S	0 * 51.7	15( * TGC S	21( * TCC S	27( * CCT
CTG	99	AIC I	CTC	9 V
AAC N	ATT	ATC I	¥ C	TT
20 CAG	80 80 80 80 80	140 ** GCC A	200 * C	260 * ACA T
ပ္ပ ပ			CIC	
ACT	AGC	AAC	TTC	CTG
10 * AGT S	70 * AGG R	130 * 66 <b>A</b> c	190 * TTC F	250 * ACC T
TGG	70 * CCA AGG	CTT V	TAC Y	AAG K
GCT A	999	GTA V	ATG M	) 1
ATG M	CCA P	ACG T	200 200	GTA V

Figure 11B

		39/99			
360 * CTG V	420 * ACT T	480 ACA	540 * TTC F	600 * CTC L	099
GCT	ATG		CAC	GAA E	
CTC	ATC I	6C <b>A</b> A	AAC	GTG	
350 * CTG L	410 * 666 6	470 * TCT S	530 * ATC I	590 * GTG V	650
TTC	GGT S	TTT	GTC	CAG Q	
TAC	TAT	999	CGT	ACG T	
340 * GAG E	400 * CGC	460 * CTG TGT L C	\$ * TCA S	580 * GAC D	940
ACC	4 CTC L	CTG	် ပို့	ACC	•
	CCA P	TGG	TGT o	JGC C	
္မွ	CTG	TCC S	TTC	TCC S	
330 * TTC	390 * TGC 0	450 · · · *  * CGA TCC TGG	510 * TCT	570 CTT .	63(
TCT	AŢ	CTG L	CIC	GTG V	
TIT	P OCC	P OCC	CGC R	ATA I	
320 * GTC V	380 * CTG L	440 ** 177G	500 * GCC	560 * TGG W	620
III	TAC Y	000 R	ATT I	CCC	
TAC	00 8	ATG M	CIC	TCG	
310 * ATG M	370 * GAC D	430 \$\$ \$	490 * ACC	550 * ATT I	610
CAG Q	3 IAT Y	CTC	GCT A	S GAC D	•
ACA T	GCT	999	CCT	TGT	
000 V	ATG	CCT	GTT V	TTC	

### Figure 11C

* TCC	720 * <b>6</b> CC	780 * TTC F	840 * CTG
GTC V	000 W	ACC ATC T I	GTC
CTA	CAC	ACC	ACA
ACA T	710 * CGG	770 * TCC S	830 * ATC
ATC I	၁၅၅	၁၀၀	GCT
GGT	000 R	TAT Y	₩
* TGT C	700 * TCT GCC S A	760 * ATT TGG I W	820 * ACC
TCG	TCT	, ATT 1	CIC
၁၀	000 P	CIG L	
CIG	ATT 1	CCC V	TTG
* ATT I	690 * AAG / K	75( * GTG V	810 * TCC T
GIT	ATC	ACT	AGC
TGT c	AIC	CIC	GAG
* TTC F	680 * ACC T	740 * CAT H	800 * GTA
QCC A	ACT T	rcc s	ACC TCG OPTION
ATT I	AIC	TCA S	ACC OF
* 000 *	670 * ATC I	730 * TGC C	790 * AGG /TRA
TTT F	6 TAC Y	ACC T	790 * CAT GTG AGG PRONUC/TRA
TCC	GCT	TCA	
GTG V	TAT Y	ITC	TTG

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Figure 11D

900 * CTC	
GAT	
AAG K	
890 ** <b>AA</b> C N	
AGG R	
CTG L	
880 * ACT T	
8 TAT Y	
ATA I	TGA -
TTC	AAG K
870 * CCT	930 * 066
AAC N	AAG K
CIG	GTC V
860 * GTG V	920 * ACG T
CCT	AGG R
ACA T	000 R
850 * GTC V	910 * CTG L
8 ATT I	GCT A
ACC	GAA
AAC	AAG

Sequence printed from base no. 75 to base no.1010 Sequence numbered beginning with base no. 75 Sequence numbered beginning with base no. Translation begun with base no. Translated to base no.1010

F12T.D1S Translated sequence of Figure 12A

									-								
9	*	QA Q	ш	120	*	CTC	>	180	*	ATG	Σ	240	*	CCA	۵	300	<b>-</b> ×
			۲			ACA	H			ပ္ပ	۵			ATC	н		•
		TII	Į.			GTA	>			ACA	H			ACC	H		
20	*	GGA	ပ	110	*	CIG	1	170	*	CAT	H	230	*	ACC	П	290	*
		CII	7			IAC	<b>&gt;</b> -			TIG	_			TCC	S		
		CTT	ᆸ			ATG	Σ			CAT	H			ACC	Н		
07	*	TII	Ŀ	001	*	TCC	S	160	*	TCT	လ	220	*	TTC	Ŀ	280	*
		E		-		CTG	ר	-		CAG	0	7		TCT	ပ	2	
		AGT	တ			TTC	ſĿ,			ACA	H			ATC	H		
		TCA	S			CTA	L			ATC	Н	_		GAC	۵		
30	*	TTI	Œ	8	*	CCA	¥	150						CTC	>	270	*
		AGA				H	£4			ပ္ပ	¥			E	Œ		
		AGA	~			ATT	H				¥			JCC	တ		
20	*	ACA	H	80	*	CTC	ļ	140	*	ATT	_	200	*	CIA	_	260	*
		AGC	လ			TTC	£4			ATC	Н			₩	z		
		AAC				CAC				CII	L			CCI	4		
10	*	ggg	ပ	70	*	CII	_	130	*	CTG	L)	190	*	CIT	ᆸ	250	*
		TCA	S			CAA	0	-		AAC	z	-		TIC	Ŀ	(4	
		GAA	ы			CCA	Δ,			999	ပ			TII	Ŀ		
		ATG				<b>VA</b> C	z			CII	_			TAC	¥		

	AGC S
	ATT I
	TGT
	GAC
	GAA E
	TAT Y
	ACC 7
	ATC I
	AGC
	AAG K
	AGC S
	CAG C
	ACC
	TAC
	ATA I
	AAT N
_	GTA V
12B	TTC
ure	ATG M
Fig	AAG K

360	900 V	420	ეეე ∞	<b>780</b>	CAC	540	C TIC TIC TGT F F C	% *	ATG M
	GTG ATG		CAC		ATA I		TTC		ATA I
	GTG V		AAC N		TTC		TTC F		CTC
350	GCT (	410	CTG V	470	GCC	530	CAC H	590 *	CAC
	JIC TIC TIC CIT TIC GCA GAA TIG GGC AAC TIT CIC CIG GCT V F L V F A E L G N F L L A		ATT		CAT		CCT		AGT S
	CTC L		GTC		TTC		ATC I		CCA P
07	TTT F	0 *	ACA T	09,*	ATT I	, *	¥×	* 80	TTT F
e e	AAC N	7	TAC	4	AGC S	v)	CTC V	01	AAC Z
	ပ္ပ		TGT		ATC		CAT D		GAC
_	TTG	_	CTG	_	GTT V	_	ပ္သမွ		TCA S
330	GAA E	390	CCA P	450	TGG	\$10 *	TGT	570	TGT
	QCA A		E CAC		TCC S		TTC F		ACC T
	TTC		TGT C		CTG L		ACC		CTC L
320	GTT V	380	A-G	* 077	CTC	\$00 *	TTC	\$60 *	<b>₹</b> ~
	77. L		GCT A		CTT		CAC		TCC
	TIC		CTC V		CTG L		CTA		CTG
310	GTC V	× 70	TAT Y	*30	CTG L	06,*	CTC V	\$	AAT CAG (
m	TGT C	m	CCA R	7	ATC I	7	ATT I	ın	AAT N
	CAG AIG IGI GIC IIC I Q M C V F		CAC		TGT C		TTA L		GAA CTT
	CAG		TAT Y		CTC		AGC S		GAA

Figure 12C

			44/99		
099	TTC F	720 * TCT S	780 * TAC	840 * ACT	⊢
	TAT	TTT F	GTG V	TAT	×
	TCT S	GCA TIT A F	gGA G	ATG	Σ
¢50	TAC	710 * AAG K	770 ** CTC L	830 * GTC	>
	CIT	TAC	၁၅၅	TCG	S
	ATC I	700 * CAG GGG AAG 1 Q G K	ACA	GCT	¥
07.	AGT GGC	00 * 50 00 * 50	760 * TAT AGT (	820 * GCA AGT	S
•	AGT S	CAG Q	7 TAT Y	gCA	A
	26	690 * C TCC ACA GTT CAV S T V Q	750 * TCC TTA TTT I S L F	CCL	٧
_	TCC	ACA T	TTA	TCT	S
¥ (3)	ATT TCC TI	69( * TCC S	75( * TCC S	810 * CA CAT TCT GC	Ħ
	ပ္ပဲ 🗸	AT	ATT GTC	800 * GTG GTC CAA AGC TCA OPTION	S
	GCA A	ICT	AIT	AGC	S
620 *	TTG	680 * CAT H	740 * TCC S	800 <b>4 K</b> 9	0
	ATG M	ATA	CIT	GIC	>
	GTT V	TCC S	CAC	CTC OI	>
610 *	GTA CCT V P	670 * A GTA TCC T V S	730 * CCC TCT A	790 * AGT ICT GCT GTG GTC OPTION	A
•	GTA V	GTA V	် ၁၁၁ <b>∀</b>	TCT TCT NNUC,	S
	CII	I	ည် ပ	•	S
	AAT	AAG K	ACT	GTC	>

Figure 12D

	43/33
900 * <b>AGA</b>	
AAG K	
GTG V	TGA -
890 * <b>CAT</b> D	950 * GGA G
¥A ×	ACT T
AAT N	TGG W
880 * AGG	940 * CAT H
CTA	CAT H
AGT S	GTG V
O TAT Y	AAA ×
870 * ATT '	930 * TGT C
TTC	· AAC
200 4	o Ogv
860 * AAC N	920 ** GAA E
CIG	TTA
ATG M	CTG
850 * CCC	910 * AGA R
ACC	GAA E
GTC V	CTG
CTC V	GCT A

Translated to base no.1126
Sequence printed from base no. 173 to base no.1126
Sequence numbered beginning with base no. 173 Translation begun with base no. 173

Translated sequence of I3T.D1S Figure 13A

60 8AA × €	12 <b>0</b> * AAC	180 * TTT F	240 * CTC	300 * Y
			CTG	
CCT	TTG	TAT Y	AAG K	<b>V</b> ⊘
			230 * CCC	
			ATG M	
CTG	ACC	ACA	ACA	75C 2
07 *	100 * CTC L	160 * CAC H	220 * TCT GTC S V	280 * GGC G
CTG L	TAC	CIC	S S	g GGA
CTC 1	ATG M	SAG O	TCC S	TAT Y
CTT	O GTC V	o TCC S	210 * TGT TTT C F	CCC
30 TTC	9 * CTG	15 * GAC D	21, * TGT	27. * ATT
			CIA	
ACC	77G	CA CA	CAT D	
20 * ATC I	8 * 80 A	140 * GTT V	200 * TCT S	260 * CAC D
TTC	TAT Y	CTT	IIC	CAG
			ICT	
10 CAA	70 * CTG L	130 * ATT I	190 * AAT TTG N L	250 * AGG
AAT N	CAC	ATC I	AAT	ATG M
			AGC S	
ATG M	CAT	TTG	CTC	CAG Q

13B	
9	
gur	
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360		420 * ACT T	480 * CTT L	540 * TTT F	600 * ATG M	099
	GAC	TGT C	CTG L	CTA L	ATC I	
	TAT	CTC	ACA T	GAC D	TIT A	
350	* 55 A	410 ** <b>AAG</b> K	470 * CAC H	530 * TGT C	590 * ATA I	650
	ATG M		ATG M			
	OCC P	AGC S	ATC M	TTC F	TTC	
07	CTG V	00 * ATC	460 * CAT GCC H A	20 AAC	580 * AAT GAG N E	079
٣	CIT	ATC I	CAT H	S CTC L	S N N	9
	Ë J	လ ပြ	လ င္ပင	,TC	Ħ-	
	TTC	ACC	ACA T	GTG	TAT	_
330	AGT S	390 * TAC Y	450 * ACG ACA T T T	S10 * AAT N	570 * ACT TAT / T Y	630
	GAG	CAT H	C 13	AAC N	GAC	
	ATG M	CTG	ATG M	GAG	TCA S	
320	CAT D	380 ** CCT		500 * TGT C	560 * TGC C	620
	GGA G	TTC	TTG	TIT	9 <b>V</b>	
	TIT	•	TTA	TCT	CTG	
310	GIT	70 * ATG	430 * GTG CTG V L	.90 11G	550 * CTA AAG L K	610
13B 3	ATG M	3 A	otc	AGA R	CIA	Ψ
		CTG V				
Figure	TTC	TAT	TGT	GCA A	GIT	

Figure 13C

*	ATA	-	720	CCT	S	780	SCA	Д
	ATC	ı			ပ		TGT	ပ
	AGG	~		ACC	Н		TTA	u
*	CCA	∢	710	TCT	S	770 *	TAC	¥
	TAT	>-		TIC	124		CIC	ᆸ
	TCC	S		GTC	>		GCT	ပ
*	ATG	Σ	700 *	AAG	×	760 *	AIT	H
	CIT		7	TGC	ပ		ATT	н
	ATT	H		ATC	-		ACA	H
	CIC	u		ည္ဟ	ပ	_	ဗ္ဗဗ	ပ
*	TTC		<b>*</b>	CAA	0	750	TAT	<b>×</b>
	TTC	Ŀ		ACC	H		TIC	ſĿ,
	CCA	ы		TCI	လ		CIG	-1
*	ATT	ı	<b>680</b>	CCA	Δ.	740 *	TCA	S
	ATT	н		GIT	>		GIA	>
	ATT	н		AAG	×		GIA	>
*	CTC	-1	670	CII	L)	730	TCI	s
	CIC	u	•	ATT	H	_	$c_{16}$	_
	AÇA	Н		ICI	S		CAT	
	AGT	S		TCC	S		ICC	S

17T.D1S Translated sequence of Figure 14A

60 ** GCT	120 * TTC L	180 * ATG M	240 * CCT P	CAC E
CCA	GTG V	ور درد	ATT 1	ITT F
TTC	TTC	¥×	ACG	rcc s
50 \$ \$ \$	110 * CTG	170 * CAC	230 * GTT V	* ATC 1
CTC	TAT Y	cic L	ACT T	CTG
TTG	g ×	ACC	GTC	CAG
40 * GTG V	100 * CTG	160 * CCA	220 * TGG TAT G W Y 280	, <b>ĕ</b> ი
TTT F	TT	CAC	TGG W	CAT
SA ⊡	TCI S	A A	ATT 1	AAC N
S	E J	ဗ္ဗ	S B	<u>ن</u> ي
3 * GTG V	9 * TTC F	15 * ATT 1	21, * CTG L	* ¥ ¥
AGA R	TTT F	SC.	III F	ည္တ
ა ე	CTA	ATA I	TCA	o GGT
20 * AGT S	80 * CTA L	140 * ATT I	200 * ATG M 260	* ATT I
CAC	GTA V		AAT	TTC
AAC	CGA R	CTC	GCT	၁ဗ္ဗ
10 * AGG R	70 * CTG	130 * ATG M	190 * TTC TTG F F L	¢ A
CGA R	CCA P	_ AAΩ ⊼	TTC F	CTC
GAG E	SCC A	GAA E	TT a	ATG M
ATG M			TAT Y	

Figure 14B

		50/99		
360 * CTT L	420 * ATT I	480 * ATC I	540 AAC N	600 * * A A
CTT	GIC	GGT	ATC I	ACA T
GTC V	ပ္ပ်ပ္	TTT	Acc	TCC
350 * TGT C	410 * TAC Y	470 * GGT G	530 * AAC N	590 * ATG
340 340 5 GT TGC ACA GAG 7	CAC	ა ცე	ر درد د	GAC
ACA T	CTC	GCT A	၁၀	ACT
340 * TGC	400 * T CCA	460 * TCC TGG 0	520 * TAC TGT (	580 * TCA TGC S C
66T 0	CAT H	TCC S	TAC	5 TCA S
0 GGC TTG C	390 * IG GCT ATC TGT CA / A I C H	450 * CCA GCT GGA T A A G	S	CTG
ွင်္ပ	ATC I	GCT A	CTG	AAC
330 * CTG	390 A A	4 4 6 6 7	510 * CGC R	57C * CTC L
H	5 -	₹ ~	TCT S	TTG
H.	TAT Y	cy Cy	ATT I	CCA P
	380 CCC R	440 ** CTC	500 CTT L	560 * TCT S
CTC L	GAC	TGT	TTC	GTG V
CAA Q	TAT Y	CTA	CTT V	GAT D
310 * ACA T	370 * ATG GCC M A	430 CCC R	490 * GTT AAA (	550 * TGT C
ATG M	ATC M	AGC S	GTT v	TTC
16c 5	CTG V	AGT S	ATG M	TTT
310 * GCA TGC ATG ACA C A C M T	GCT	GTC V	TCC	CAC

	9 999 *	720 * CAT H	780 * ACT S	840 * TCT S	900 * * CAA
	ACT T	CGC	GCC	GIC	AAC
	GTC	ວວວ	GCA A	CTG	ပ္ပ
	650 * TCT S	710 * GCT	770 * TAT Y	830 * AAG K	890 * TTC C
	ដូច	4.7	51 7	A A	ဗ္ဗ
	000 P	TCA S	ATC I	ACC T	TAC
	640 CGA CGA	00 * 00 * 00 * 00	750 760 * * C CTC ACT GTT GTG ATC T' L T V V I I	120 * GAC D	880 * <b>A</b> TC ATC
	CTC	ATC I	GTG V	E TI	8 ATC
	CTC	ນ 20 <b>ຂ</b>	GTT	GCT A	870 * TTC AAT CCC
	ATT I	ATG	ACT T	TCA	AAT
	630 * TTT	690 * GTG V	750 * CTC L	810 **	870 * TTC
	ATT I	GCT	CAC	GCA A	Ĕ
	gcc A	GGT G	TCC CAC (	A AG	999
	620 * CTG	680 * ACA T	740 * GCC	800 * CCT	860 * GTA
	GTC V	ATC I	TGT	AGG R	ATT
	TIT F	ეე <b>V</b>	ACC	000 V	860 * GTC ATT GTA CCG OPTION
	310 * GAC D	570 * ATG	730 * TTT TCA . F S	790 * TAT Y	\$ \$ GCT TRA
14C	ACA	TAC	TET T	ATC I	E TAC NVC,
Figure	CTT	TCC	3 V	TTC	CTC
F.19	GAG	GC <b>A</b>	¥ ¥	ATT	GTA

R N Q

L F N

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## Figure 14D

960 * ACC T	
AAT	
9 V	
950 * GAG E	
CAG	
GAC	
076 CAG	
کن کن <b>ح</b>	
CTC	
CAC	
930 * CTG (	
ACG T	
ပ္ပဲ	TAG -
920 * CCT R	980 * GGT G
CIA L	ATT I
ecc A	AAA K
910 * AGA R	970 * AGC S
AA ×	် ပ္ပိပ္
GTC	AAA K
GAT D	AAC Z

Translated to base no.1102 Sequence printed from base no. 119 to base no.1102 Sequence numbered beginning with base no. 119 Translation begun with base no. 119

Translated sequence of Figure 15A

		55, 55		
60 * * CAC	120 * AAC N	180 * TTT F	240 * CTC L	300 * TTC F
CCA	ဗ္ဗ	TIC	TTC	ATA I
) ) )	CTG	TAC	× AA	CAG Q
	110 * TTT F	170 * ATG	230 * CTG L	290 * ACA T
222	ACC	) 200 a	ATG M	CTG L
TTG	2 5	8 4	8 4	ÿ.,
07 4 07	100 * CTC	L60 * CAC	210 220 * * * * * * * * * * * * * * * * * * *	80 * CCA
CTC L	TAC ⊀	CTC L	rct s	GCA A
CTC	ATG	CAT	TCC	TAT Y
CTC L	o ATC I	TCT s	TET T	TCC
3( * TTC F	CH	15( ** GAC	21C * TGC C	270 * ATA I
S =	Ĭ.	፫ 1	<u> </u>	TCI S
ACC	CTG	<b>y</b> ⊘	GAT D	CCA
20 * ATC I	80 A GCC	140 * GTT	200 * TCT S	260 * GTA V
GTC V	TIT	CTT	TTC	CAA O
ACT	TTC	GIC	S	AGC S
AAA ×	70 * CTG	130 * GTT V	190 * AAC TTG	.50 * CAG
AAC	<b>₹</b> ~	ATT I	AAC N	2 ATA I
AAC	CAG Q	CIA	AGC	AAT N
ATG M	CAC	CTG	CTC	CAA O

	۵	C	١
	u	٢	١
	•	-	ł
	(	1	)
	١		ı
	:	3	ı
	ζ	)	n
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	Ŀ		

			54/55			
360	8 * 55 ×	420 * ACT T	480 * CTT	540 * TTT F	600 * ATG M	099
	GAC				ATC I	
	TAT Y	CIC	ACC		CAT	
350	* 000 A	410 ** AAG	470 * CAC	530 * TGT C	590 * ATA I	650
	ATG M	CAT H	ATG M	TTC	ATG M	
		AGC \$			TTG L	
340	¢ CTA V	* * ATG	09₹ 09₹	320 * AAC	580 * AAT GAG	079
	CIT	ATC I	CAT H	CTC L	S N	•
	CIT	AAC	ICT S	CTC	O TAT CTT A Y V	
0	TTC	O ACC T	TCA S	GTA V	TAT Y	_
33	AAT x	39 * TAT Y	45 ACA T	51 * AAT N	57( * ACT T	630
	ဗ္ဗဗ္ဗ			AAC N		
	CTT	CTG L	ATA I	GAG E		
320	TAC Y	380 * CCT P	77 55T 4 0440	500 * TGT C	560 * TGC C	620
	ည္သ	TTC	TTT	TITI F	ეეე <b>∀</b>	
	TII	<b>16C</b>		TCT	TTG	
310	* TTG L	370 * ATC I	430 * CTG	490 * TTG	550 * AAG K	910
	TTG	ပ္ပိ 🗸	£ 1	AGA R	CTA	w
	111 F	CTC V	CTC	GCA A	CTC	
1	TTC	TAT	IGT O	GCA A	GTT	

Figure 15c

* ATC	720 * GGT C	780 * CCA P	840 * ACT	۰	900 * ATA I
AAG ATC P	် ဦပ	1.00	GTA	>	CTA ,
AAG	ACT 1	TTA	830 * ACA GTG		၁၁ မ
* CCC	710 * TCC S	770 * <b>TAT</b> Y	830 * ACA	H	890 * CAG
TAT	TTC	CTC	TAC	<b>&gt;</b>	AAG K
TCC	GTC	CCT	ATG	Σ	Σ, Ξ
* ATA	690 700 * * * CT CAA AGC ATT CAC AAG GTC TT	760 * ATT I	820 * G GCT ATG /	Σ	870 880 * * * * * * * * * * * * * * * * * * *
. CT1	CAC	ATT I	CCT C	∢	AGA R
: ATT	ATT	ACA T	810 * TCT GCC ATG G	Σ	AAC N
CTC 1	O AGC	ည် ဝ	000	∢	AGA R
* CTC	69 * K	75 * TAC Y	81( * TCT	S	870 * CTA
⊢	₹ ``	E	999	ၒ	ပ္ ပ
	TCT		AAG	×	TAC A
			800 * CTA	H	860 * ATC I
· GTT	GTT	GTG V	AGT 7110)	S	TTC F
ATT	AAG K	GTG V	800 * TIT AGT CTA AAG GGG OPTION	[L4	9 20 4
* ATC ATC I I	670 * ATT CTT	730 * CTC TCT L S	790 * AAT /TRA	z	850 * CTG AAC L N
ATC	ATT I	CIC	GAT NUC,	Q	CTC L
GTG V	TCC	CAT H		ၒ	ATG M
ა ე	TCC	TCT S	TCA	S	CCA

## Figure 15D

6	TAG
	TGG
0	CCA P
930	CTC
•	TCT
	ATC
920	¥×
	AAG K
	AGC S
910	ក្ស ភ
Ů,	ACC
	CTT V
	AGA R

Sequence printed from base no. 57 to base no. 995 Sequence numbered beginning with base no. 57 Sequence numbered beginning with base no. Translation begun with base no. 57 Translated to base no. 995

19T.D1S Translated sequence of Figure 16A

57/99						
09 «	120 * CTC L	180 * TAC Y	< −	300		
TTC	_	ATG M	CCC			
CCA P	ACT	ပ္ပင္	ATG M			
50 CTG	110 * ACC	170 * ACA T	0 4	290		
၁၁၁	CTC 1	CAC	GIC			
CTG L	TAC	CIC	TCT			
0, * CTT L	100 * ATG	160 * CAT H	220 * TCC S	80		
T of	ည (၁၁	TCC S	FT.			
			TGT C			
CAG	0 TTC	O CTG L	CTC			
	90 * CTG 7	LIS ATA	210 * GAC D	270		
ATC	9 9 9	ATT I	ეე <b>V</b>			
9 ecc	TAT	CTC	III			
20 * ACT	80 * TIC	140 * ATC I	200 * TCC S	260		
S ⇔	CIG	AIC I	TTA			
	CAC H	ATC I	AAT			
10 * AGA R	70 CAA Q	130 * ATC I	190 * AGC S	20		
AGA R	TAC	CTC	CTC	7		
ACT	GAG È	AAC N	TIT			
ATG M	P P	၁	TTG			

			00/33		
ca <sub>G</sub>	360 * TAT Y	420 * CTC L	480 ** ACC T	540 * GAT D	600 ** TTT F
GCA A	. SS ◆	AAG K	CAC	TGT C	ATA I
CTG L	ATG	) )	CTG L	TTC	GCA A
* TGC	350 * GCC A	380 400 400 410 * * * * 4 : TGC TTC CCC CTT CAT TAC ATG AGC CCC CTC CTC ATG AGC AGC AGC AGC AGC AGC AGC AGC AGC AG	470 * ATG M	530 * TAT Y	590 * TTA L
၁၉	CTC V	ATG M	OCC A	CAC	GAA E
GCA A	CIT	ATC I	CAT H	CCT	AAT N
* TAT Y	T * CTG	AGC S	460 * TTC F	520 * ATC I	580 * GAT D
CCC	TTC	ATG M	ACC T	CTC V	CAT H
ATC I	AAC N	TAC	ACT T	AGT S	ACC
TCC	cGA	CAT H	CTC	GAC D	CAC D
CCA P	33 (11 * 12 )	39 CIT	450 4 6TG V	51( * GAG	sy sy
GTT V	GAC D	000 P	TGG W	TGT o	TGT
<b>₹</b> ~	CCA	TTC	TCC S	TTC	GCT A
AGC S	320 * TTT	380 * TGC	440 CTG	500 * TCA S	560 * GTC V
8 8 8	1 4	AIC I	GTG V '	177	¥¥ ×
ATG M	CTG T	000 V	GTG V	AGA R	CTG
* AAC	310 * TTT	370 * GTG V	* cTG	06± 06± 06±	550 * CTG L
6B * CAG AAC Q N	TTC	370 * TAT GTG Y V	AGT S	ATG M	ACT
e 16 TTG L	ATA TAC I Y	တ္ထ	GTG V	CIC L	TCT S
Figure 16B TIG TIG CAG L L Q	ATA I	GAC	TGT	CTG	ATG M

DOTTION DIPERT

Figure 16C

660 * AGA R	720 * ACC T	780 * TTA L	840 * ATG
GCA A		TAC	ACA
TAT Y	TIC	CTC	TAC
650 * TCT S	710 * GCC	770 * GGT G	830 * ATG
GTT V	¥¥	ATT I	TTG
AIT 1	CAT A	GTC ATT (	TCT
640 * CTC ATC L I	690 700  * * CT ICT ICT CAA AGC ATC CAI	760 * GGG ACA (	820 * : ATG
CTC	AGC S	် ဗ္ဗဗ	GTC
630 * CCT TTC CTT P F L	<b>V</b> ⊘	750 * CTG TTC TAT G L F Y	ACT
TTC	o TCT S	TTC	GAG ACT
63 CGT & 0	69( * TCT S	75( * CTG L	810 * AAG
Ö	CCT	H	GTO
GTA V	GTC CCT	org v	ACT
620 * GTT V	680 * AAG K	740 * GTG V	800 * TCC
ATA I	TTC	ICT	AAC
CCT	ATC I	CTG L	AAT 0I
610 * GGC G	670 * TCC S	730 * CAC H	790 * GCT 7TRA
999	TCC	TCC	TCA TCA
TTA	GTT V	ပ္ပ ပ	790 800  * * * CCT TCA GCT AAT AAC TCC ACT PRONUC/TRA OPTION
ATC I	ATT I	TGT	TGT

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Figure 16D

900 * CCA A	
GAT D	
¥A ×	
890 * <b>ATA</b> I	
GAC	
AGA R	TGA -
880 * AAC	940 * CTA
AGA R	) [1]
CIA	TCC S
AGC 8	200
870 * TAC	930 * ATT I
ATC	<b>Y</b> ⇔
TTC	AAG
860 * CCC	920 * <b>AAA</b> K
AAC	ეე ე
CTG	ATG M
850 * ATG M	910 * ATA I
2 2 2 2 2 3 3 3	y AA ⊼
ACA T	GAA E
GTG V	TTA L

Translated to base no.1144 Sequence printed from base no. 200 to base no.1144 Sequence numbered beginning with base no. 200 Translation begun with base no. 200

Figure 17A Translated sequence of

114T.D1S

60 * * CCA	120 * CTG L	180 * TAC Y	240 * AAA K	300 * CAG
ATC I	ATC 1	ATG M	) ()	ACA T
200 P	ATC I	ور درد	ATG M	CTG
	110 * ACC T	170 * ATG M	230 * ACA T	290 * TGC C
	CIC	CAC	GTC	ა ემე
CTG	Y.	1,10	s C	T C
40 * CTC L	100 * ATG M	L60 * CAT H	220 * : TTT TCC T F S	¥ TAT Y
CTC L	<b>V</b>	TCT	TITI F	TCC s
ŢŢ.	r G	OAC D	ပ္ခဲ့ပ	I I
O GAG E	O TTC F	CTG	210 * GAC CTC 7 D L	TCT S
3 * TTG L	o *	150 * CGA R	21( * GAC D	27( * CCA P
ATC I	000 V	GTT V	S	STA V
TIG	TAT Y	CH	TTC F	CAA ⊘
20 * ACT T	80 * TTC F	140 * GTC V	200 * TCC S	260 * AGC S
			TTG	CAG Q
AAC	CTC		AAC	ATG M
10 * AAT N	70 * CAT	L30 * CTA L	190 * 3 AGC S	AAC N
, 25	TAT Y	CTC	CŢ	CA C
ACT T	GAG	AAC	TTT	CTT
ATG M	TCA S	00 <b>A</b>	TTG	77G L

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			,			
360	* TAT Y	420 * TTC F	480 * ACC T	540 * GAC D	600 * TAT Y	099
	ပ္ပင္ပ	-	CAT H		ATA I	
	ATG M	ACC	CTG	TIC	ATG M	
350	4 CTC >	410 * AGC S	470 * CTG	530 * TIT	590 * CTC L	650
	CTC V	ATG M	S S S	CAC	GAG	
	CTT	ATC I	CAT H	CH	AAT	
340	r T.	400 * ACC	* ACC T	520 * ATT I	580 * CTT	079
	ΤŢ	T AC	ΑŢ	); }	¥ [§	9
	AGC S	TAC	ACG ,	AAT	AIT	
0	3AG E	SGT R	L L	8 ×	AC D	
ж ж	ATG (	39. * TTG	45( * ATG	510 * GAG E	570 * TCA G	630
	GAT D	CCT	TGG W	TGT C	၁၁၁	
	ပ္ပမ	TTT F	CTC	111	S	
320	TTT F	380 * TGC C	440 * CTT L	500 * TCT S	560 * TTC L	620
	CIT V	ATT I	CIA	TTG	AAG	
	ATG M	S S S	GTG V	AGA R	CTC	
	TTT F	370 * GTG V	430 * CTA	,90 * GCT A	550 * CTT L	910
	TTC F	TA1 Y	TCA S	ATT I	S CCT A	9
	TAC	CGC	GCT	CTC	TCT	
	CTC L	CAC	TGT	CTA L	ATT	

800 088 054
6
4

	AGA R
	GTT V
	TAT
+	TCC
	ATG M
	GIT
*	ATT I
	TTA L
	CTA L
	TTC F
*	CCA P
	ATC
	ATT 1
*	ATT I
	ATC I
	CIC
×	0 0
	GGT
	TTC L
	ATC I

720	ACC T
	TCA S
	TTC
710	G
	AAG
	TAC
700 *	ATC I
	GAC
	SA O
_	ATT I
<b>*</b>	TCT
	CCA P
	TTT
<b>680</b>	AAG K
	TTG L
	ATT
670 *	TCC S
9	TTC F
	TTC
	ATT . I

780	* Y.
	ATC TAC TTA
	ATC
770	TTT GGT
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	ATT
09Z *	ACA
, .	999
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750	TTC
	ACC
	otc V
740	GTG V
	TCT
	CTG
730	CAT H
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380 *	<b>¥</b> C
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0	ACC S
870	TAC
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860 *	ည္သ
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* 50	ATG M
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0.	Α¥
	CTC
_	TCT S
930	ATC I
	₹×
	AAG
920	ACT
	76C 0
	ATC I
910	GTT
0	AGA R
	ATA I
	CIA

64 to base no.1002 Sequence numbered beginning with base no. 79 Translation begun with base no. Sequence printed from base no. Translated to base no.1002

Figure 18A Translated sequence of

115T.D1S

		65/99		
60 **	120 * CTG L	180 * TAC Y	240 * AAG K	300 * CAA
ATC I	GTC V	ATG M	) 1	ACA
CCC		200 P	ATG	CTG
50 CTC			230 * ACG	290 * TGC
TIC	•	CAC H	GTT	255
CIT		CTC L	TCT	GCA
40 * CTC	100 * ATG M	160 * TCC CAT S H	220 * TTT TCC F S	280 * TTT
CIT	TCC	S	TH F	2 222
IIC	CTG	GAC D	JGC C	ATC
O CAG	O TIC	O CTG	OCTC	TCC
			210 * GAT C	
ATC	000 <b>v</b>	ATT I	TCT	
	TAC	_	TIC	-
20 * ACT T		140 * ATC I	200 * TCC S	260 * AGC
<b>V</b> ⇔	CTG V	ATC I	TTG	CAG
AAC	CAC H	ATC I	AA <sub>C</sub>	ATG
10 * GAG		130 * : ATC	190 * 3 AGC S	250 * CAG AAC
GAA E	CAC H	CŢ	CTC L	CAG.
ACA T		AAC	III	TTG
ATG M	TCA S	ა ე	TTG L	TTG

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			•			
360	* TAT	420 * CTC L	480 * ACC T	540 * GAT D	600 * TTT F	099
		AAG	CAC	TGT	ATA I	
	ATG M	) 200	CTG	TTC	CTC V	
350	* CC A	410 * AGC S	470 * ATG	530 * TTT F	590 * TTC L	650
	GTG V	ATG M		CAC	GAG	
	CIT	ATC	CAT H	<b>a</b>	AAT	
340	* TTC CTG F L	* * AGC	* TTC	520 * ATC I	570 580 *	079
	TTC	ATG M	ACC T	ATC M	CAT H	ŭ
	AGC	TAC	ACC	AAT	ACG T	
0	GAG	CAT H	CTC	CAC D	GAC	_
	CTT (	39 CH 1	45( * CTG	510 * 600 A	57( * TCT S	630
	ĕΩ	ပ္ပဲ မ	TG v	ပ် ပ	ည် ပ	
	GCA A	IIC	TCC	TTC	TCC S	
320	* TTT	380 * TGC		500 * TCA S	560 * CTG L	
	TAT Y	ATC I	crc v	176 1	¥ ×	
	CTG L	OCC A	ctc v	AGA R	TTG L	
310	TAC Y	370 * IAT GTG Y V	430 * CTC L	490 * ATG GCC	550 * CCT TTA P L	610
}	TI 4	TAT	ACT S	ATG M	CCT	Φ
) !	TAC Y	ည္က	GTG V			
, ,	TTA L	GAC	TGT	CTC	ATA I	

* CGA	R 720 *	ACC T	780	TTA	840	<b>CT</b> C
SC.A		S		TAC		ACA
TAT	<b>&gt;</b>	TTC F		CTC		TAC
* TCT	S 710	ATC I	770 *	GGT	830	ATG
GTA	>	AAG K		ATT I		ATG
ATT	<b>-</b>	CAC H	•	ATC I		၁၁၅
* CTC ATC ATT	700 <b>*</b>	GGC ATC G I	09 <i>*</i>	GGG ACA O	820	ATG
CTC .	ٔ ب	ပ္ပဲ ပ		ပ္ပ ပ	~	GTC
GTG 	>	<b>8 ≈</b>		TAT Y		ACT
TTT	4 0	o c	0	3 TTC 1	0	AAG GAG
* 25°		-	750	Ę 7	810	
ATT	<b>-</b>	3 4		TCA S		GTG
GTC		2 >		CTC ^		ACT
* ATT		-	740 *	GTG V	800	TCT
GIT		1 1		TCT S		AAT AAC TCT OPTION
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Figu GTC	. 17	>		၂၀၄		TCT

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	TTC
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	AAG K
920	¥×
	TGT C
	CIT
910	GTC V
	AGA R
	ATA I
	CTC L

8 to base no. 952 Sequence numbered beginning with base no. Translation begun with base no. Sequence printed from base no. Translated to base no. 952

#### Figure 19A

Translated Sequence of H5.D1S

10

20

ATC TGT TTT GTG TCT ACC ACT GTC CCA

70

80

GTC ATC ACC TAT GCA GAC TGC ATC ACC

GAC AGC TTA CTC CTG ACT GTG ATG GCC D S L L L T V M A

190

200

CAC TAC ACA GTC ATT ATG AGG TCC TGG E Y T V I M S S W

250

260

GTG AGC ATC CTA TAT TCT CTG TTA CAAV S I L Y S L L Q

70/99 Figure 19B

30		40					50			60
*			*				*			*
		CIC								
K	Q	L	▼	N	I	Q	T	Q	S	R
							0			
90			100	,		-	110			120
_	) TC	TGC	-	طيحالماله	272	CTC	ملحك	CTD.	CIRC	mac
		C								
Q	4	C	-	E	-	-	=	¥	٧	70
			160	,						180
*			*				*			*
TAT	CAC	CGG	TTT	GTG	GCC	ATC	ICI	CAC	ccc	CIC
Y	D	R	F	V	A	I	C	E	P	L
210			220	)		2	230			240
_			*				*			
CIC	TGT	GGA	CIG	CIG	GII	CIG	GIG	TCC	TTG	ATC
L		G								I
_	•	•	_	_	•		•	_	••	_
270			280	,		2	29G			300
21V			200	•			*			300
_		ATG	_		CA C	~	TICC	ے سی	m~m	
8	I	H	A	14	Q		3	P	С	T

### 71/99 Figure 19C

			310 320					330	
	CIG L						TTC F		GAA E
		37 *			3 <b>80</b>				390
GAC D	act T		ATI I				atg M		aat V
		43	0		,	440			450 ±
CTC	GCT A					T~~			aag K
		490	)		500				510
	CAG					GCA A			ACC T
		550	)		:	60 #			570 *
	TAT Y								
		610	}		6	20 *			630 *
e E	gct a	GCA A		TCG S		atg <b>M</b>	TAC Y	act T	g <b>ig</b> V

### 72/99 Figure 19D

		34	-			350			360
						*			
		CAG					. ecc	IGI	LCC
L	N	Ω	V	I	H	L	A	С	S
		40	6			410			
		70	0			*T.O			420 *
TT	. ACI	AGT	GTG	CIG	CIC		GGG	GGA	TCC
F	T	s	V	L	L	G	G	G	C
			_						
		460	)			470			480
3.073	C-TITATE	-	maa			<b>+</b>			*
I	. CIT	TGT C							
_	•	C	C	1	C	3	I	S	8
		520	)			530			540
		*				*			340
TGT	GCA	TCT	CAC	CTC	TCA	GTT	GIC	TCC	TTA
C	A	S	H	L	5	V		S	
		580 *			•	590			600
ACT	<b>TCT</b>	GCT :	CCA	300	CAT		m~>	~~~	. *
Š	S	λ	À	I		AAC N	S		
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		640							
		*							

GTC ACC TCC ATG CTG V I S M L

# Figure 20B

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G		×		<b>×</b>	۰	0	U	ŧ	Ç	•	•	=	•		;		•	1	!	+	Ž

### Figure 20C

### Figure 21A

TATGAAGACTCCTATCCCAAAGATGCTGGTAAATATACACCCAGAGCAATACTATCACC  T S T T I P K M L V N I H T Q S N T I T 60  TATGAAGACTCTATTTCCCAGATGTTTGTACTCTTTGGTTTTTTGGAGAACTGGACAACTTT  Y E D C I S Q M F V L L V F G E L D N F	FACACACCCAGAGCAATACTAT	HTOSNTI	COTTITICGACIACTCCACAA	VFGELDN		I C H P L Y Y		GTTGACCTTCTGTGGAGATGTC	LHAFLQSLIVLQLTFCGDVK
S T T I P K M L GAAGACTGTATTTCCCAGATGTT  E D C I S Q M P CTGGCTGTGATGGCCTATGATCC  L A V M A Y D R  NTTGTGAACCACCGACTCTGTAT  I V N H R L C I ATGCCTTCTTACAGAGCTTAAT	CCTAMATA	N >	TOTACTOT	VLL		X A T	7 7 7	TGTACTACA	V L Q
S T T I P GAAGACTOTATTT  E D C I S CTOOCTOTOATOG  L A V M A ATTOTOAACCACC	CAMCATOC	N N	CCAGATGT	A M O		ACTUTGEN	LOI	GAGCTTAAT	1 7 8
S 1 S 1 CTOO CTOO CTOO CTOO CTOO CTOO CTOO CT	ACCACCATCC	<b>a</b> H <b>L</b>	ACTGTATTT	CTGTGATGG	¥ 2	TGAACCACC	E E	CCTTCTTACA	1 1
TAT Y Y CTO	ACCICCA	t S	TATGAAG	T E D	LLA	GTCATTG	v I v	TTACATO	L H A

### Figure 21B

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10.5		ည	<b>1</b> 2	Ę	Ę	5	2	ဋ	Ž	2	Ŋ,	2	ð	Ŋ	C <b>A</b> C	ATG	3	AG.	₹	ATCCCTCACTTCTTCTGTGAGCTCAATCAGCTGTCCCAACTCACATGTTCAGACAACTTT	6
•		Ω,	==	ъ.	64,	Ų	<b>4</b>		z	œ	1	S	0	+ -3	F	U	† s	0	Z	I P H F C E L N Q L S Q L T C S D N F	IPHF.CELNQLSOLTCSDNF.
17	2	AAG	<b>1</b>	ξ.	Z,	X	<u> </u>	Ę	5	S S S S	5	TAT	ATT	ဍ	ğ	TAT	Ĕ	CC	9	CCAAGTCACCTCACAATGCATCTTGTACCTGTTATATTTTGCAGCTATTTCCCTCAGTGGT	4
	ے	တ	×	-13	۴	×	=	13	>	Δ.	<b>&gt;</b>	PSHLTPHETOPIEANISTEG	1	<del> </del> <	1	H	5	12	5	0	PSHLTMHLVPVIFALS
431		j J	É	Ę.	Ē	Ę	₹.	AGA.	E	5	Ĕ.	CAT.	Acc	T <sub>T</sub>	TAT	ğ	C <sub>I</sub> C	Ş	ర్డ	ATCCTTTACTCTTATTTCAAGATAGTOTCTTCCATACGTTCTATGTCCTCAGTTCAAGGG	c)
77			<b>&gt;</b>	S	<b>~</b>	Ĺ	×	H	>	S	S	H	<b>~</b>	+ 5	Σ	S	† w	>	0	ILYSYFKIVS TRSMSSVOG	ILYSYFKIVS IRSMSSVQG -
188	¥	Y.	3	g	AT	E	TX	.A.T.	Š	Si i	Ď.	Ŋ	Ě	CAT	15	ğ	E	Ę	E	AAGTACAAGGCATTTTCTACATGTGCCTCTCACCTTTCCAITGTCTCCTTATTTTATAGT	6
	×	<b>&gt;</b>	×	~	۵.	S	۲	U	~	S	=	K T K A F S T C A S H L S I V S L P Y S	S	<del> </del>	>	S	1.1	1 2	<b>*</b>	8	KTKAFSTCASHLSIVS: PYS
5		8	Ŋ	· 8	8	25	<u> </u>	2	Ę	띭.	15	CAT	500	XXC.	C.C.	ğ	ğ	Ę	ဥ	ACAGGCCTCGGGGTGTACGTCAGTTCTGCTGTGATCCGAAGCTCACACTCCTCTGCAAGT	-
5		U	'n	9	>	Ħ	>	(a)	S	<	>	TGLGVTVSSAVIRSSAS	~	+ 55	, o	=	'n	S	<	S	TGLGVYVSSAVIRSSHSSAS
100	ပ္ပ	E	ફ	. C.	CI5	TAC	157	Ş	CAC	ည	5	GCTTCGGTCATGTATACTGTGGTCACCCCCATGTTG	9	2							
100	~	S	>	×	<b>&gt;</b>	F	>	>	F	۵ ا	<u> </u>	A S V M Y T V V T P M L -	ı ا	9							

### Figure 22A

CATAGGCTATICATCTTCTGTCACACCCAATATGCTTGTCAACTTCCTTATAAAGCAAAA TGAATOCTTCCTTCTGGCTGCCATGGCGTATGATCGTTTTTGTAGCAATCTGCAACCCACT AGGGGGATITCITAAIGCCICCICITITIACCCITITCCITITITICCITIGICCITCIGIGG LYSTKMSTQVCVQLVVGSY VTPNMLVNFLIK ISTLOCSIOPOSAALFG CFLLAAMAYDRFVAICN n S <u>د</u>. SILIS P L N A S S S S L G 61

### Figure 22B

301	Ž	3	VTAC	<b>3</b>	2	A	ÄÇŢ	Ė	Ž	25	AT	3	Ş	દુ	TAG	ACCAAATAGAATCAATCACTTTTACTGTGATTTTTGCTCCGTTAGTAGAACTTTTCTTC
	Δ.	Z	~	<b>H</b>	Z	=	+ &	<b>,</b>	0		+ -	_		+ 3	>	PNRINHFYCDPAPLVELSCX
361		A TG	2	5	ğ	2	ATO.	g	£	ß	5	T.	g	2	CC	TGATGTCAGTGTTCCTCATTACCTCATTTTCTGCTGCCTCAGTTACTATGCTCAC
		>	S	>	۵.	Δ	~	>	-	S	- Fee	S	<b>*</b>	÷ <	S	DVSVPDAVTSFSAASVTHLT+420
421	¥G	<u>1</u> 2	TAT	CAT	Z Z	CA	5	S	ĄŢ	ઇ	ATA	ğ	2	Ž	C	AGTGTTTATCATAGCCATCTCCTATACCTATATCCTCATCACCATCCTGAAGATGCGTTC
	>	<b>b.</b> ,	H	. H	<	<b>H</b>	CO.	<b>&gt;</b>	F	<b>&gt;</b>	-	13	H	į H	+	V F I I A I S Y T Y I L I T I L K K R S -
481		25	8	5	ACA	CAN	ŏ.	NT.	Ę	Ě	E.	ğ	Ĕ	ğ	NCCT	CACTGAGGGTCGACAGAAAGCATTCTCTACCTGCACTTCCCACTCACT
		<b>≥</b>	O	<b>E</b>	o	×	<	<b>D.</b>	S	H	Ü	-	14	į×.	1	TEGRORAFSTCTS HLTAVTL-
541	35	Ç L	2	AAC	CAT	Š	T.	Ğ.	Ę	Ę	ğ	ğ	3	9	S	GTGCTATGGAACCATCACATTCATCTATGTGATGCCCAAGTCCAGCTACTCCACAGACCA
	υ	<b>×</b>	O	E	н	H	C.	н	>	>	Z	۵.	×	9	9	CYGTITEIYVN PKSSYSTDQ -
601	8:	3:	8	69	Sic	101	CT.	Ē	(T.A.)	દુ	8	Z.	ÿ	Ş	GAACAAGTGTGTGTGTTTATATGGTGGTGATCCCCATGTTG	
	z	×	>	>	လ	>	Ŀ	>	Œ	<b>†</b> >	>	-	ہم!	ļ ×	NKVVSVFYKVVIPKL	N X V V S V F Y M V V I P M L .

### Figure 23A

### Figure 23B

101	E	3	Ę	Ĕ.	Ĕ	g	£	3	3	Ş	3	3	ğ	E	£	TAC	ATG	E	TTTAAAGITTCCTTCTGCTCAACAAAAAAAAAGGCCTTTTCTACATGTTCTTCCCACAT	ğ	S	
L K P S A Q Q R K R A P S T C S S H M -	u	ĸ	Δ.	Δ.	· ·	<		1~		نما	† ∡	<b>K</b>	<	-	- 0	4	U	+ 0	L R P S A Q Q R K A P S T C S S H M -	=	Ţz	360
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### Figure 24A

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CATCTGCCACCGCTCCACTACTCTTCTCATGAGTCCTGACAACTGTGCTGCTCTGGT	I C H P L H Y S L L M S P D N C A A L V -	61 T V S W V T G V G T G F C F C F C F C F C F C F C F C F C F	•	LDFCGPNRINHFPCDLPPLI	CCAGCTGTCCTGCTCCAGCGTCTTTGTQACAGAAATOGCCATCTTTGTCCTGTCCATCGC	OLSCSSVPVTEMAIFVLSIA-
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### Figure 24B

TGTGCTCTGCATCTGTTTCCTCCTAACCCXXXXXTCCTACATTTTCATAGTGTCTCCTCCAT	VLCICFLLT??SYIFIVSSI_	TCTGAGAATCCCTTCCACTACCGGCAGATGAAGACATTTTCTACATGTGGCTCCCACCT	LRIPSTTGRMKTFSTCGSHL360	GCCGTGGTCACCATCTACTATGGGACCATGATCTCCATGTATGT	AVVTIYYGTHIS HYVGPNAH	TCTGTCCCCGGAGCTCAAAGGTCATTTCTGTCTTCTACACTGTGATCACCCCACTACT	L S P E L N K V I S V F Y T V I T P L L+480	9
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Pigure 25A  OTCTOCTTCTCCTCCACCACTGTCCCAAGGTACTAGCTAACCACATACTCACTAGTCA  V C F S S T T V P K V L A N H I L E S Q - GGCCATTTCCTTCTTCTTCTCTCAACTCAACTATTTTTCTCTGTCTCTCTC
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### Figure 25B

### Figure 25C

CTICTATOGCACCATCATTGCTGTATTTCAATCCTGTATCTTCCCATTCATCTGAGAA	FYGTIIAVYFNPVSSHSSEK.		
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### Figure 26A

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## Figure 26B

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### Figure 27A

9 GAXXXTGGCCTGTGCAGACACTGAAGCCTATGAGCAGGTACTATTTGTGACAGGCGTGGT GTTCCCCTACTGTGGATCACGGAAGATCTCCCACTTCTTCTGTGAGGTGCCCTCGCTGCT TATCTOCAACCCTCTGCGCTACCCAGTGCTCATGAGGGGCCGGGTGTGCCTGCTCATGCT **CGTOGCCTCCTOGTTOGGAGCCCTCAACGCCTCCATTCAGACTTCTCTGACCCTTCA** SWLOOSLNASIQTSCTC Chplrypvlmsorvcll FPYCGSRKISHFFCRVP 121 61

### Figure 27B

241	GGTCCTCCTCGAGGCCCATTACATTACTGCCTCTTATGCCCTCATCCTGGCTGCTGT	CCT	CCI	8	ပ္ပ	CAT	TAC	YY	CAT	TAC	320	5	Į.	ğ.	Ş	CAT	ü	ပ္ပ	20	5	
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191	CAC	AGT	CGT	S	5	5	6	GACAGTCGTCAATCTCTATCGGCCCCTTGTCTACACCTACATGTTACCTGCTTCCTA	Ď	S i	TCT	CTA	5	Ĭ.	CAI	Ę	ζ,	ည်	ğ	E S	:
4	TVVNLFYGPLVYTYHLPASY+42	>	>	z	J	<b>6</b> 4	>	TVVNLFYGPLVYTYHLPASY+42	۵.	13	>	<b>&gt;</b>	H	<b>&gt;</b>	X	-	<b>.</b>	<	S	<u>†</u> >-	42
,	TCA	ST.	<b>Y</b> CC	8	S	AGA	Ş	TCACTCACCAGGCCAAGACGACATAGTATCCGTCTTTTACACCGTTCTCACACCCATGCT	AGE	ATC	CGJ	C. T.	T.	S)	5	Z.	Z CZ	ÿ	CAT	દુ	:
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-		, 19	TGCNLGGLAGPVVRISLVSR-	121	LLFCGFNHIQHIPCDFPV+180	181	SLACTDTS VNVLVDPIINLC	241	•

### Figure 28B

18	GAGCTTGGCTTGTACTGATACATCAGTGAATGTCCTGGTAGATTTTATTATAAACCTCTG	NO.	ğ	5	<b>X</b>	5	S	5	YCA:	E	TAT	IAT	A.	ည်	2	Š
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=	CAAGATCCTGGCCACCTTCTGCTGATCCTGAGCTCCTACTTGCAGATAATCCGCACAGT	2	8	Y.	į,	S.	ž	Ř	8	ğ	3AT.	Z Y	Ö	CAC	5	
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	CACTGTGGTTCTCATCTTCTATGGGAGCATCCTTTTCATGTATGT	TAT	8	8	ATC.	Ę	Ĕ	XX	¥.	Ę	ဗ္ဗ	ğ	ž	3XX	3	
	TVVLIPYGSILPHYVRLKKS	<b>&gt;</b>	G	S	<b>H</b>	J		x	<u>.</u>	>	æ	-	<b>×</b>	<b>×</b>	5	- 20
	TTACTCCCTTGACTACGACACACACACTTGGCAGTAGTCTACTCCGTGGTTACCCCTTTCCT	ğ	ပ္ပ	5	ည	CLS	Ę,	Į.	Ž.	Ę	Ş	ž	S	Ę	۲	
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### Figure 29A

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121	1	TTC	12	£ ;	25	8	CR	ATA	TITICICITCIGIGGGCGAAATATAGITGATCATTTTTTTCTGTGATTTTTGCTCCTTTXXT	TIC	ATC	ATT	TT	<b>1</b>	3TC	E	g.	ž	Ė	ğ	TYTICTCTTCTGTGGGCCAAATATAGTTGATCATTTTTTCTGTGATTTTGCTCCTTTXXT
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### Figure 29B

301	Ų i	100	CCTGAAGATGTCCTCAACTGAGGGCCGTCACAAGGCTTTCTCCACATGTACCTCCCACGT	5	5	SA S	2	ğ	ğ	5	3	8	E	Ď.	ž	ATA.	TY	Š	SSC	Ş	CCTGAAGATGTCCTCAACTGAGGGCCGTCACAAGGCTTTCTCCACATGTACCTCCCACCT
)	7	×	LKMSSTEGRHXAFSTCTSBL	S	S	٤٩	M	Ö	~	Ŧ	×	~	ĵs.	S	۲	υ	H	S	<b>=</b>	1	1360
361	Š	2	CACTGCAGTCACTCTACTATGGCACCATTACCTTCATTTATGTGATGCCCAAGTCCAC	TCA	CIC	5	S.	ğ	Z,	Z,	TAC	Ş	5	Ē.	Ę,	2	ğ	S	5	<b>₹</b>	ب
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123	AT	ACT	ATACTCTACAGACCAGAACAAGGTGGTGTCTCTTTTACATGGTGATCCCAATGTT	C.S.	ACC	2	PC S	8	ည်	5	5	E	Ē	ð.	5	၌	<b>B</b>	ğ	₹	Ę	ATACTCTACAGAACCAGAACAAGGTGGTGTCTCTTTTACATGGTGATCCCAATGTT
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### Figure 30A

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### Figure 30B

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301	LRMSLLGGNYKAFFSTCGSHL-	361	SVVSVLWHRFWGTHKLSTY*	ACTCTCCAAGGAAGACTGTAGTGGCTTCAGTGATGTACACTGTGGTTACTCAGATGCTG	

### Figure 31A

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### Figure 31B

360		750		480	
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99/99 **Figure 32** 

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